

17/14

BEST AVAILABLE COPY

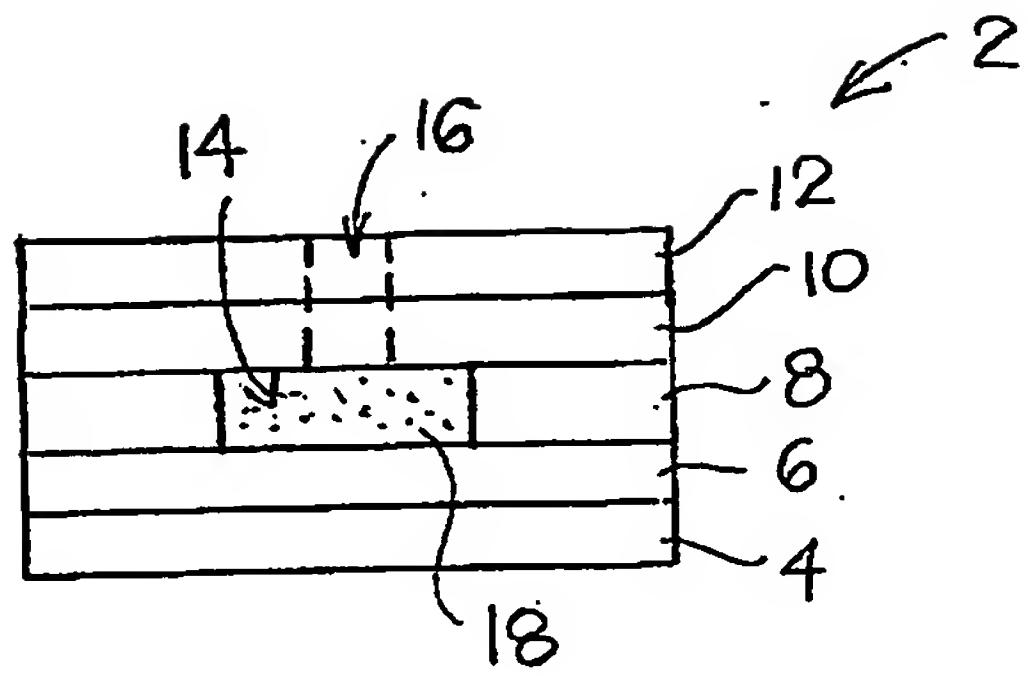


FIG. 2A

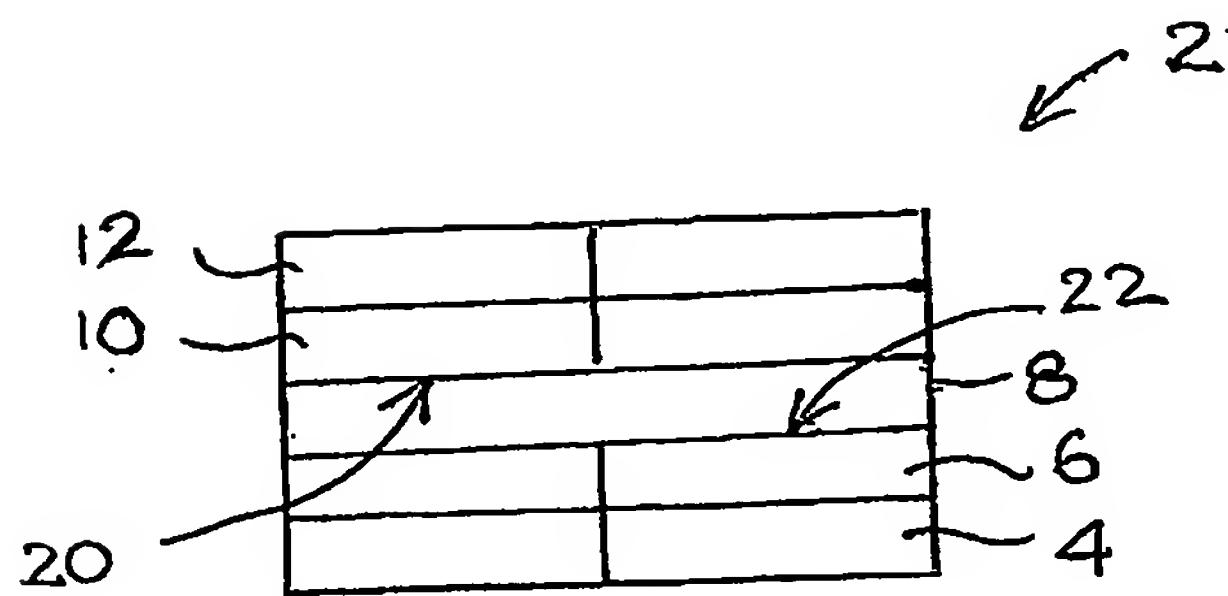


FIG. 2B

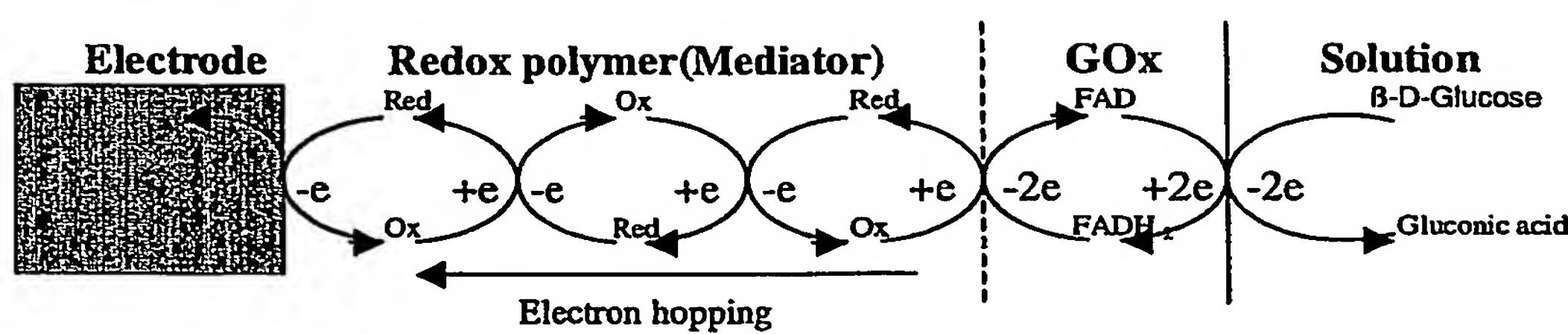


Figure 4. Illustration of redox polymer mediated biosensing process.

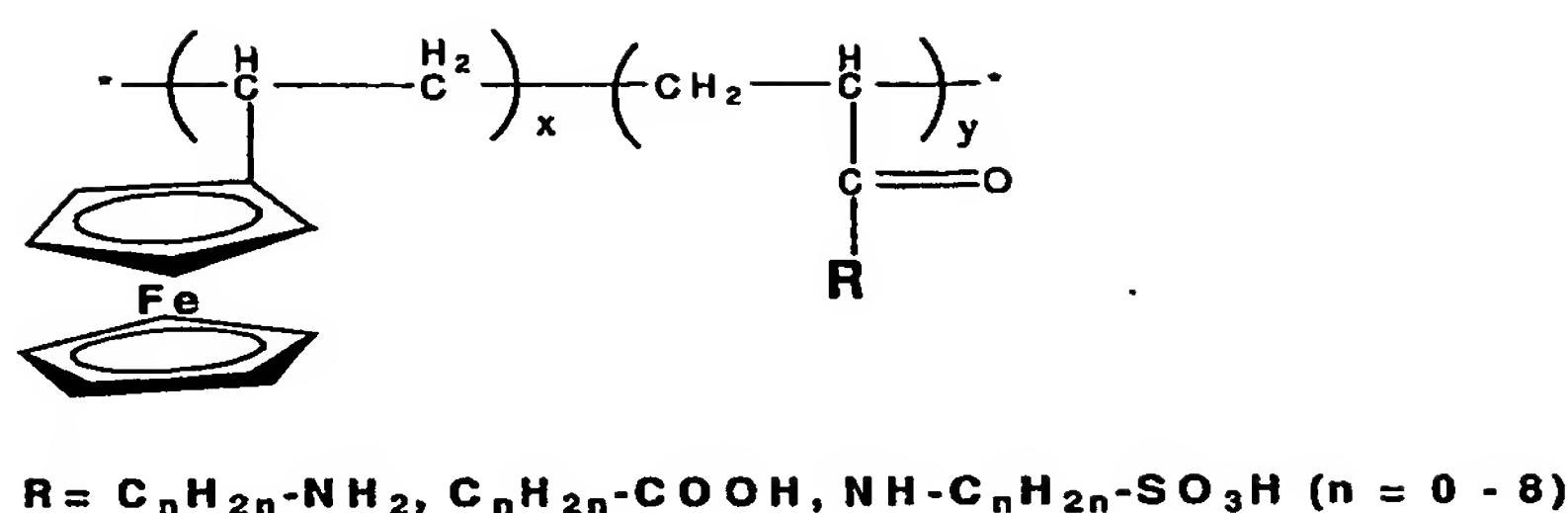
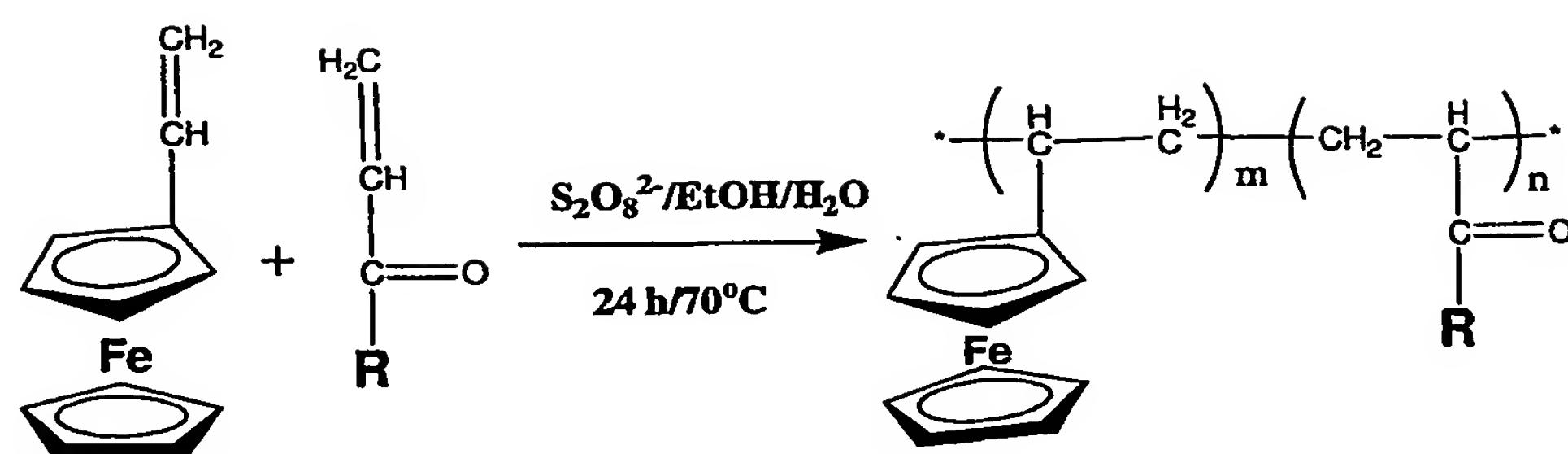


Figure 5. Structure of water-soluble and cross-linkable ferrocenyl redox polymer.



R = C_nH_{2n}-NH₂, C_nH_{2n}-COOH, NH-C_nH_{2n}-SO₃H (n = 0 - 8)

Figure 6. Polymerization mechanism of the redox polymer

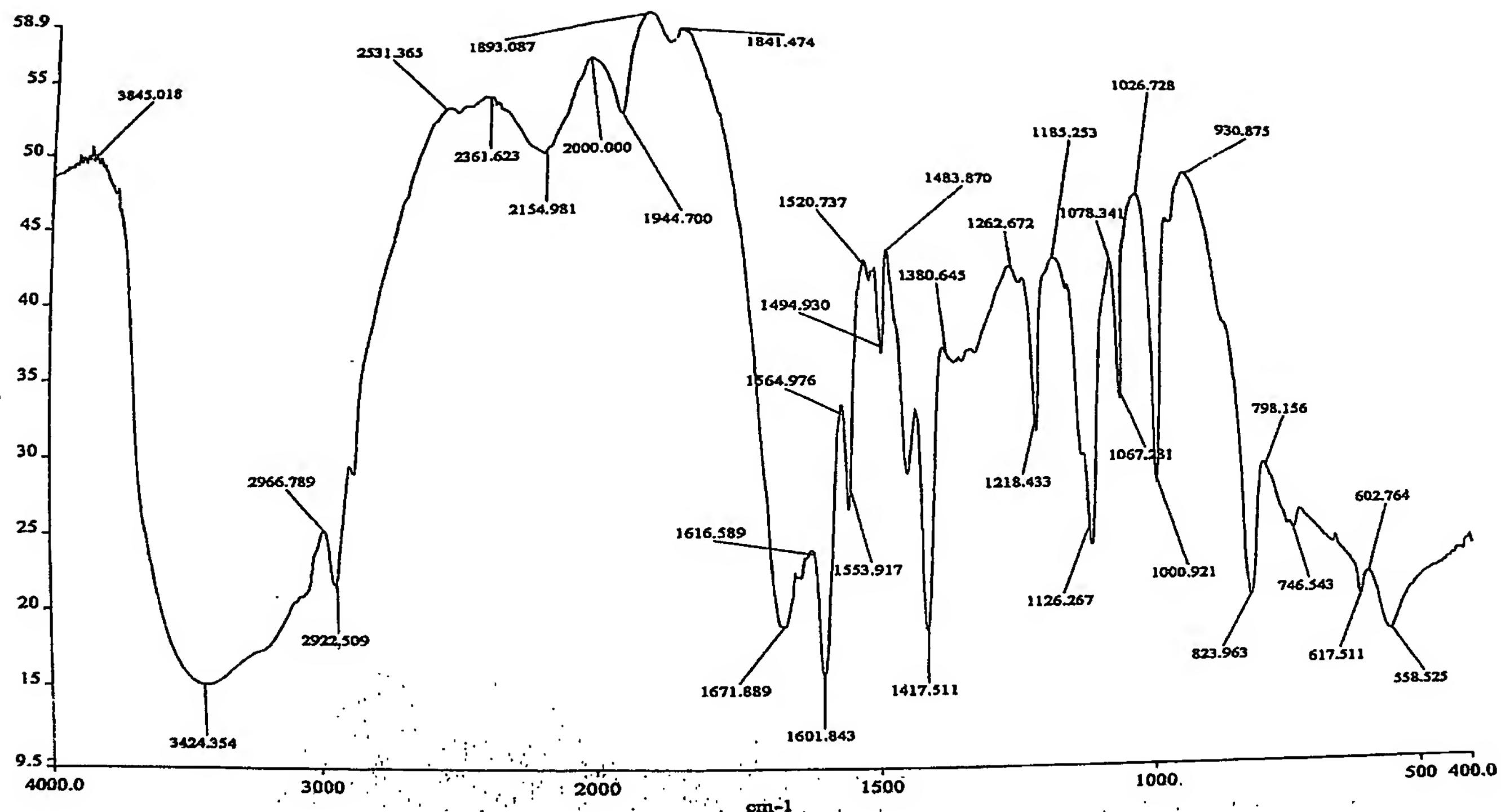


FIGURE 7. FT-IR Spectrum of PAA-VFc and PAAS-VFc redox polymer

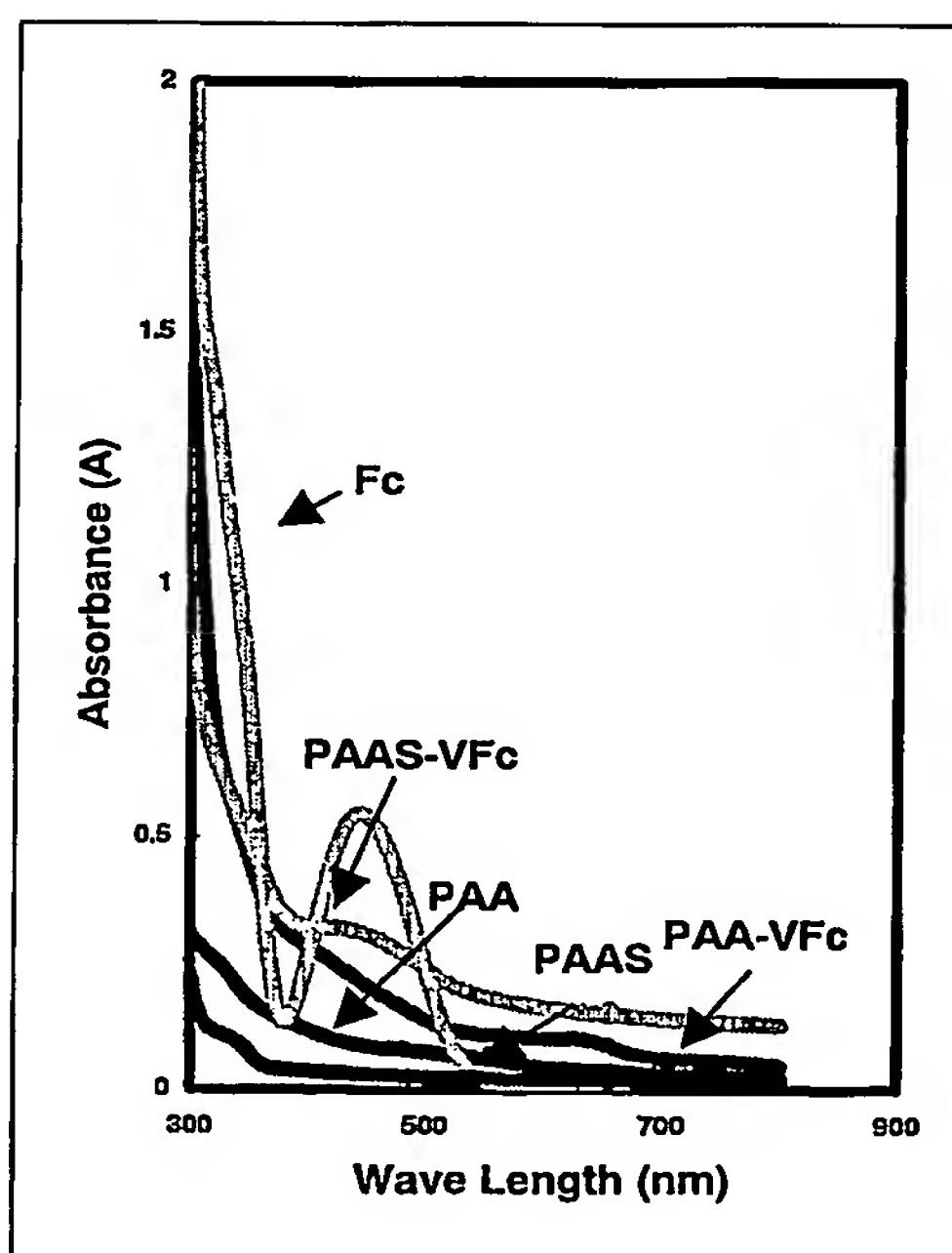


FIGURE 8. UV-visible spectra of Fc, PAA, PAAS and their VFc co-polymers.

SUBSTITUTE SHEET (RULE 26)

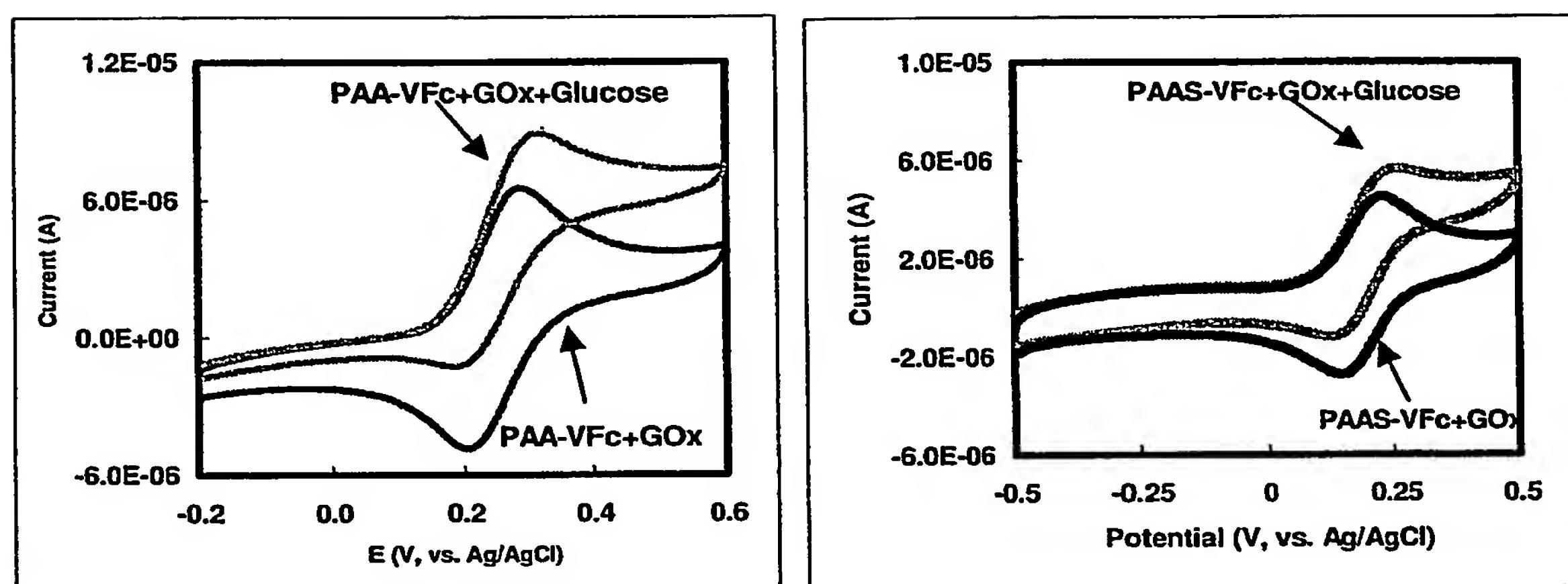


Figure 9. Cyclic voltammograms of redox polymers in various systems.

Phosphate-buffered saline, potential scan rate = 100 mV/s

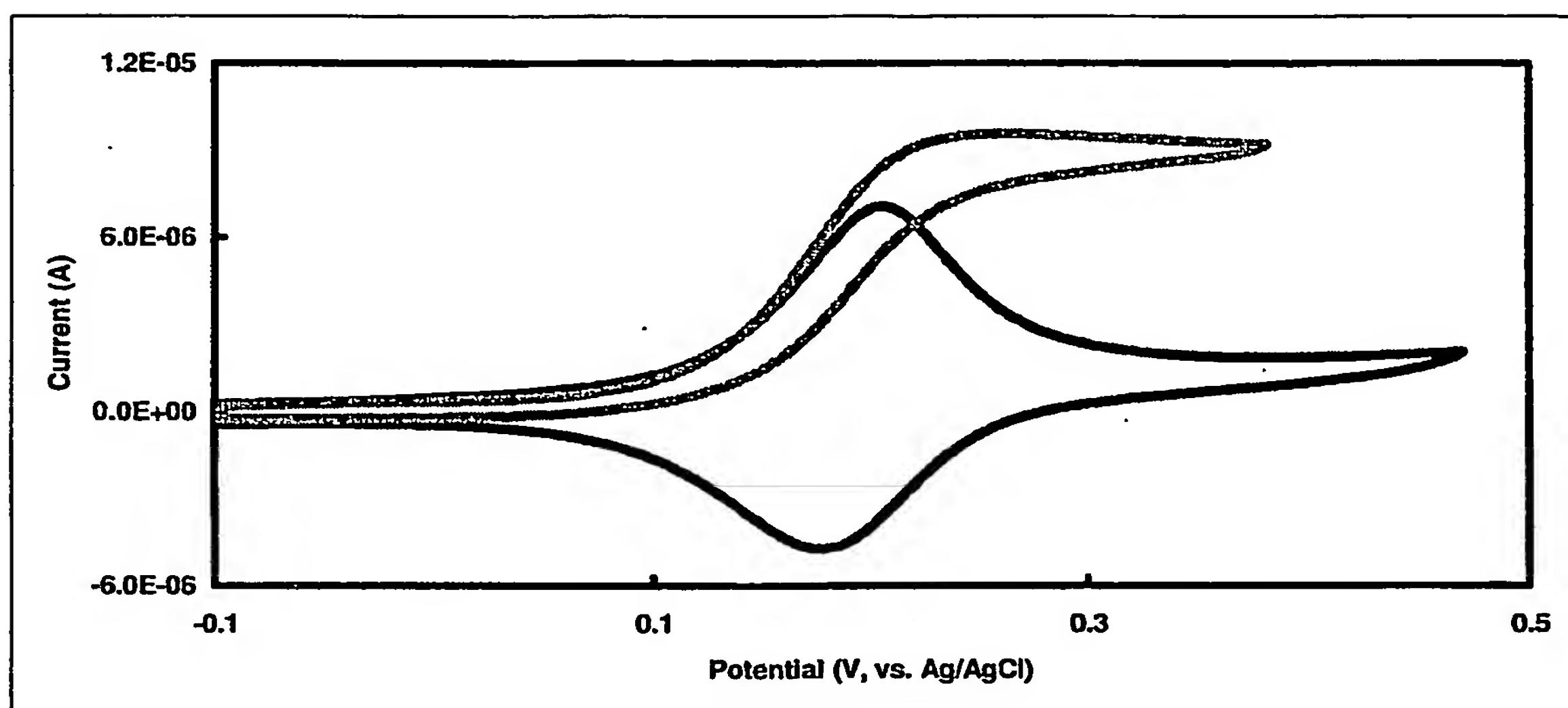


Figure 10. Cyclic voltammogram of cross-linked PAA-VFc-GOx-BSA film on gold electrode.

PBS, potential scan rate 50 mV/s.

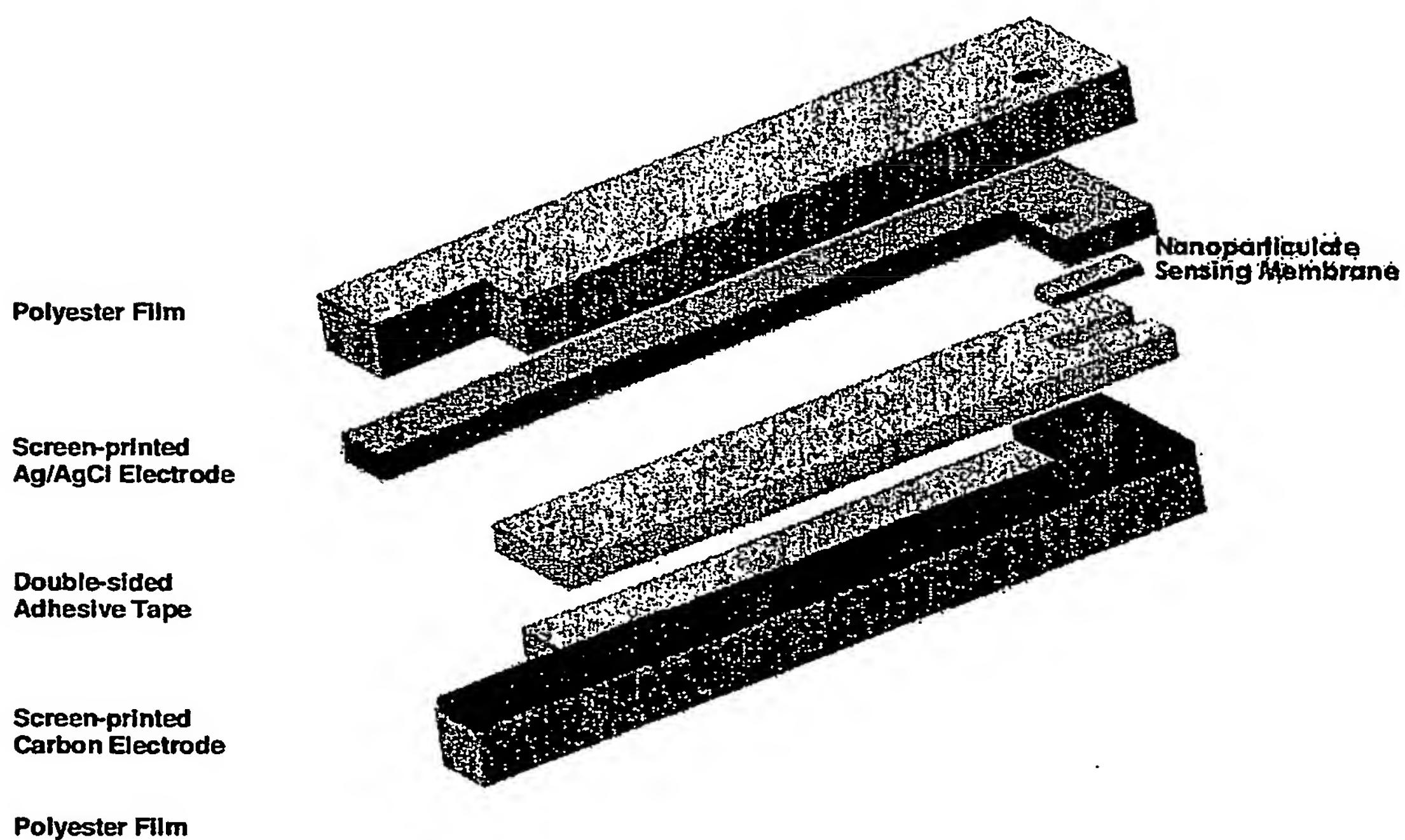


Figure 11

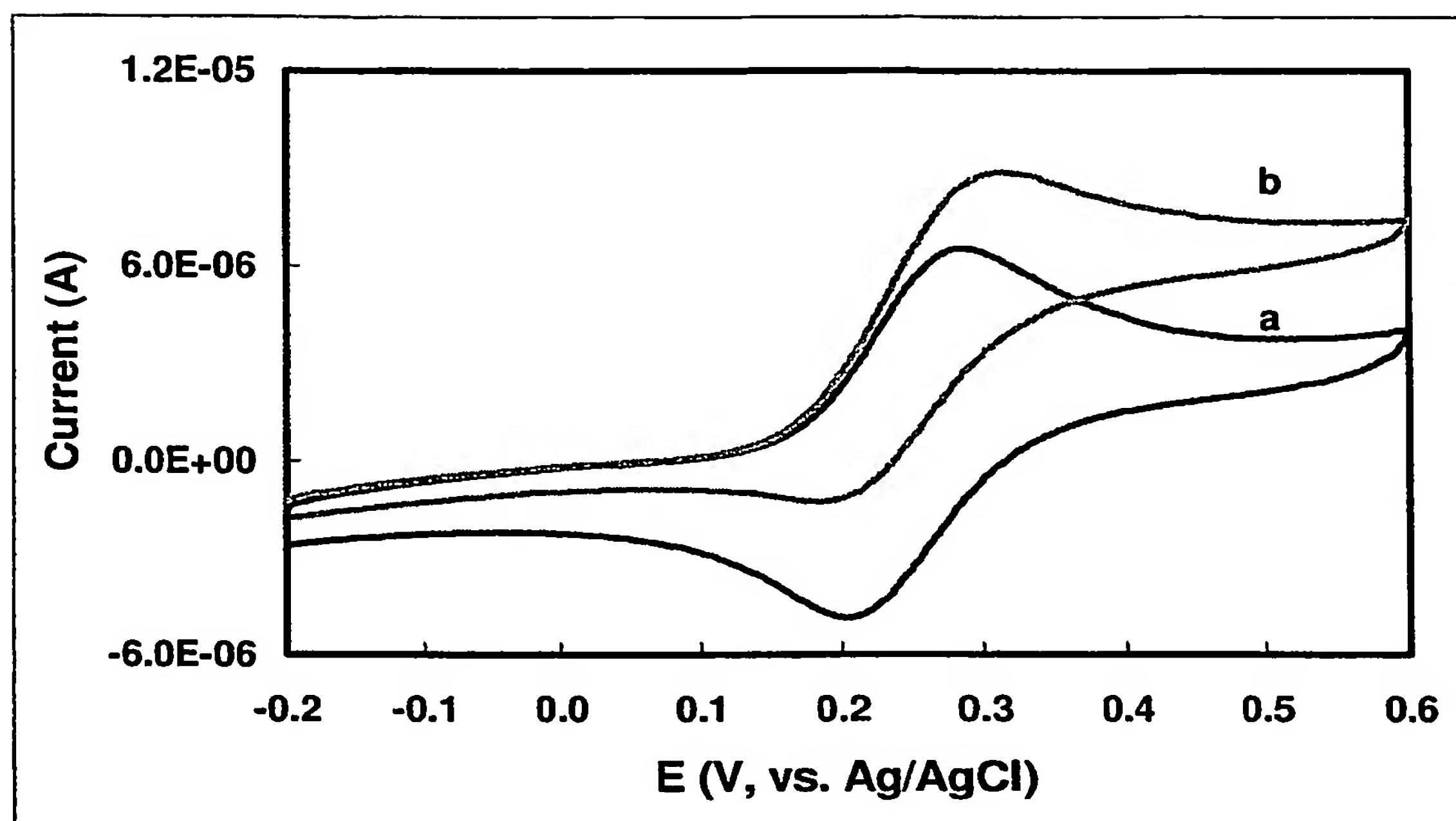
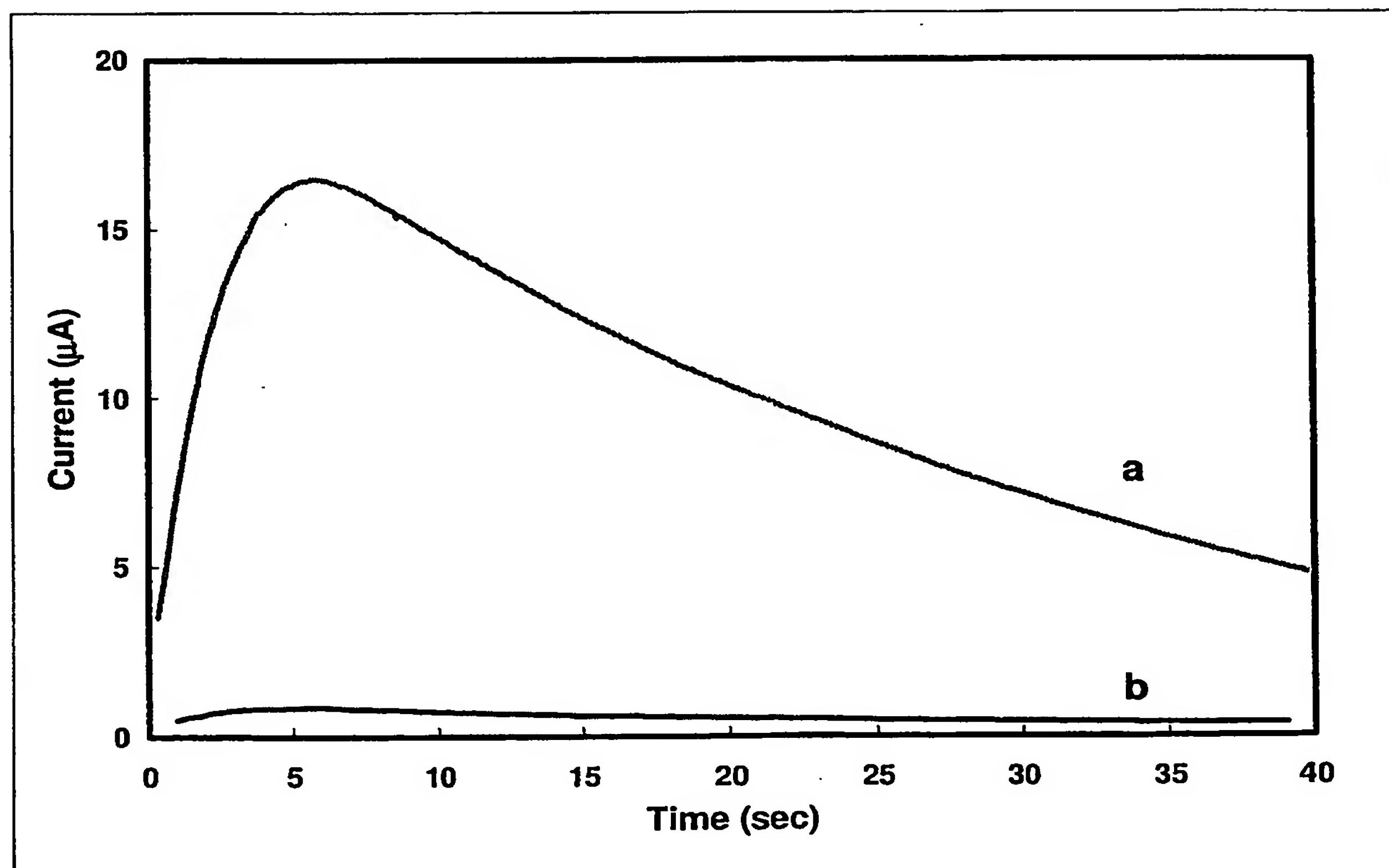


Figure 12

**Figure 13**

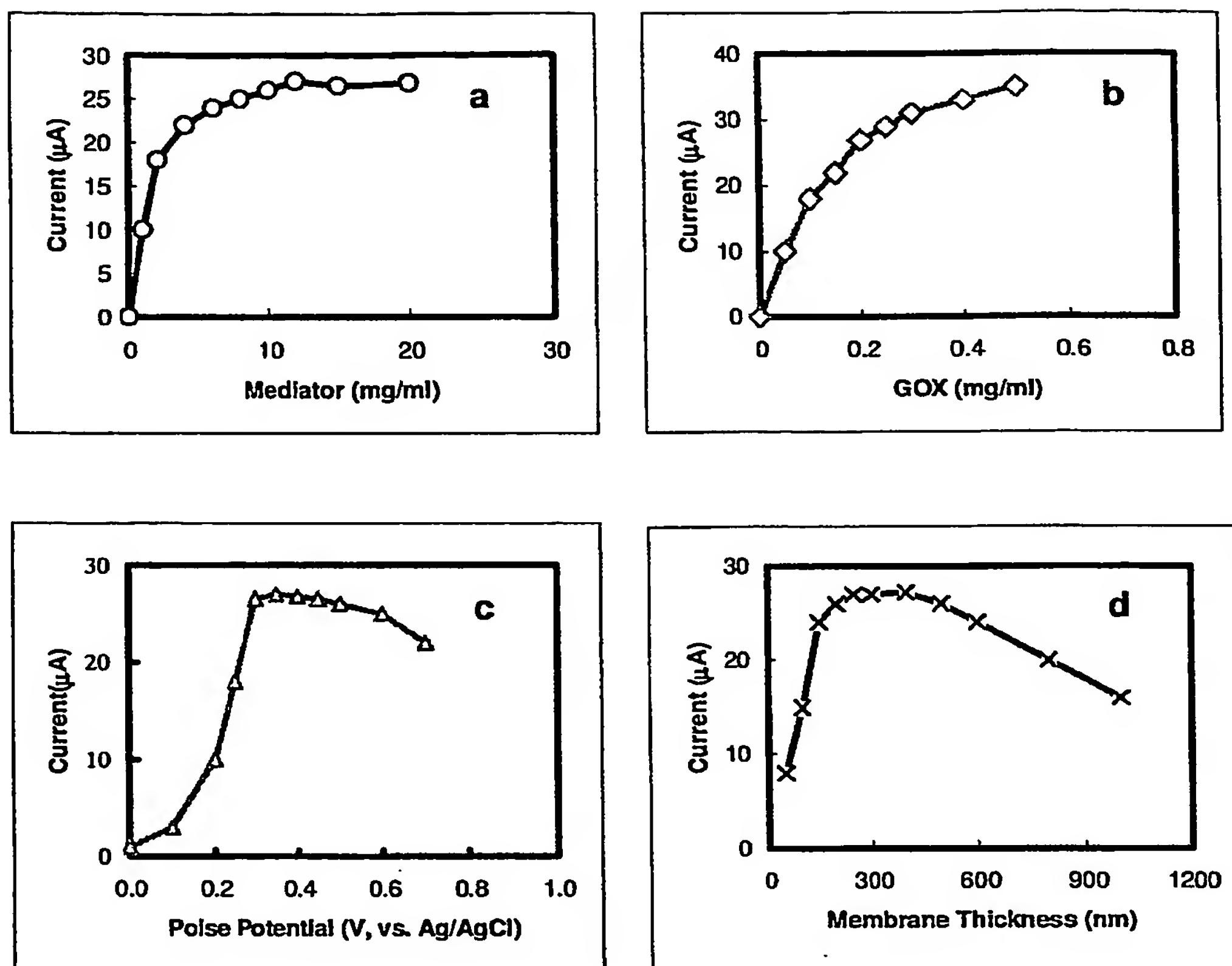


Figure 14

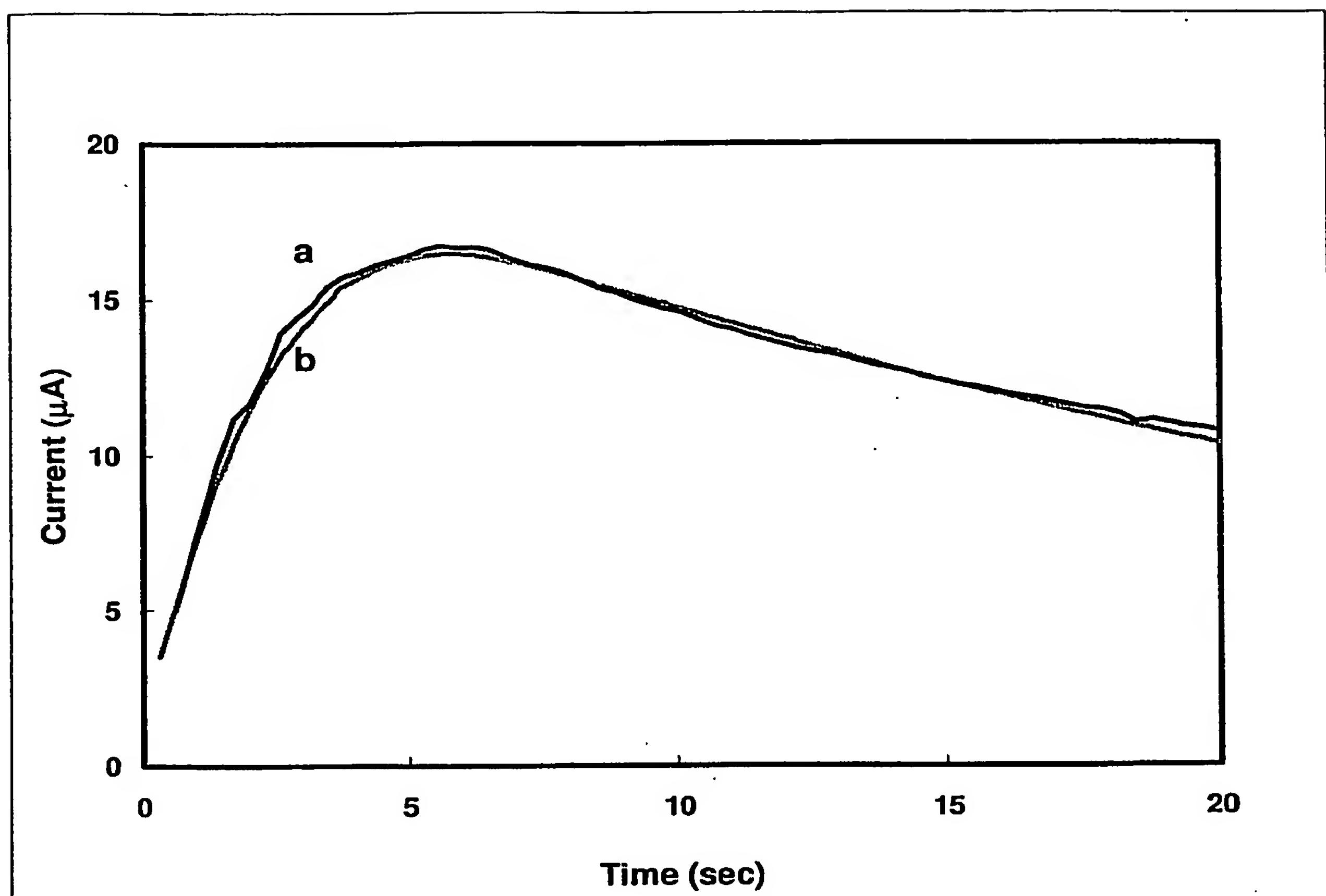


Figure 15

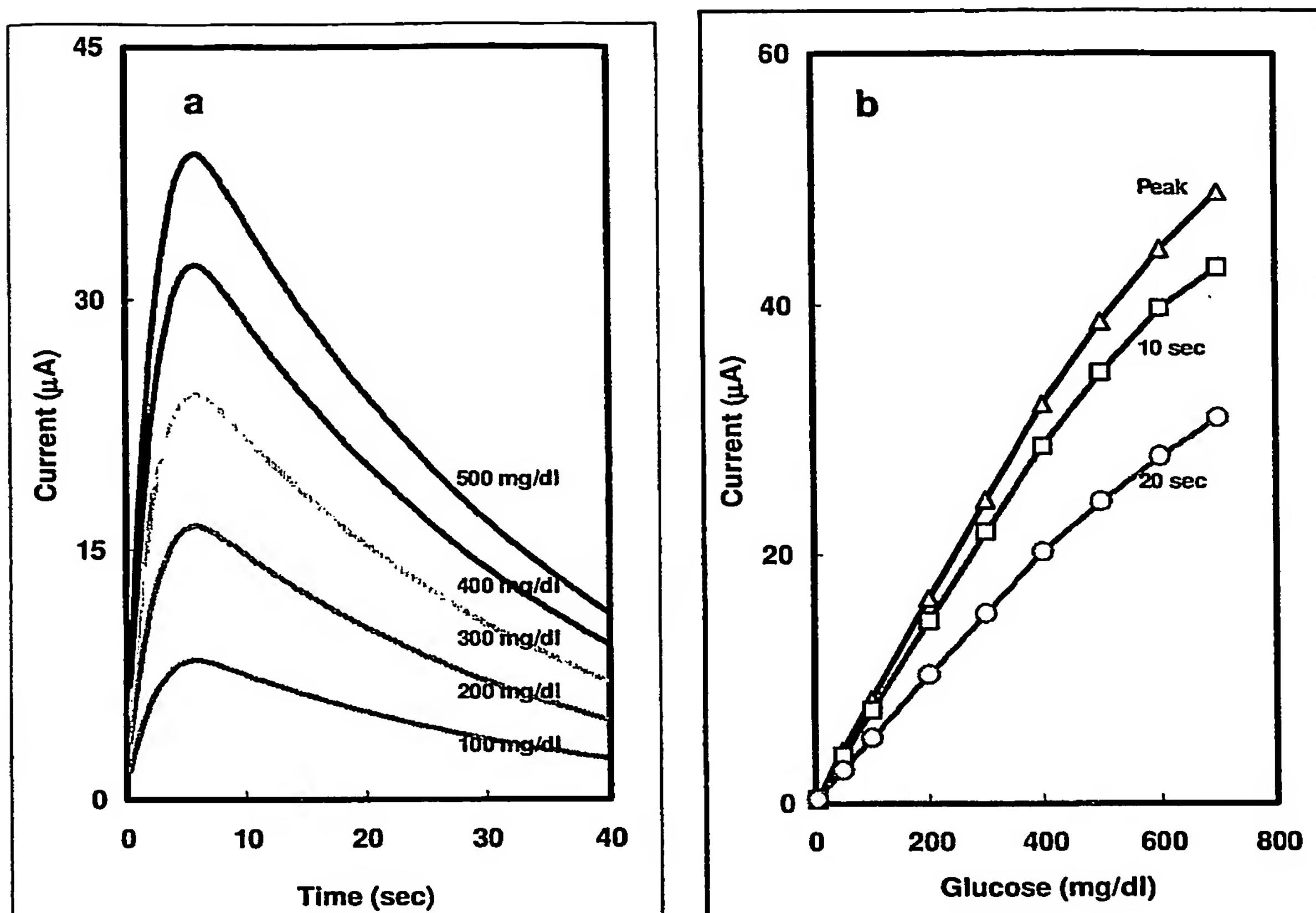


Figure 16

**This Page is Inserted by IFW Indexing and Scanning
Operations and is not part of the Official Record.**

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images include but are not limited to the items checked:

- BLACK BORDERS**
- IMAGE CUT OFF AT TOP, BOTTOM OR SIDES**
- FADED TEXT OR DRAWING**
- BLURRED OR ILLEGIBLE TEXT OR DRAWING**
- SKEWED/SLANTED IMAGES**
- COLOR OR BLACK AND WHITE PHOTOGRAPHS**
- GRAY SCALE DOCUMENTS**
- LINES OR MARKS ON ORIGINAL DOCUMENT**
- REFERENCE(S) OR EXHIBIT(S) SUBMITTED ARE POOR QUALITY**
- OTHER:** _____

IMAGES ARE BEST AVAILABLE COPY.

As rescanning these documents will not correct the image problems checked, please do not report these problems to the IFW Image Problem Mailbox.